

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331855-927

Luminaire Tested: **S122RDIW-S1005D970U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331855-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D970U927-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5827.4 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

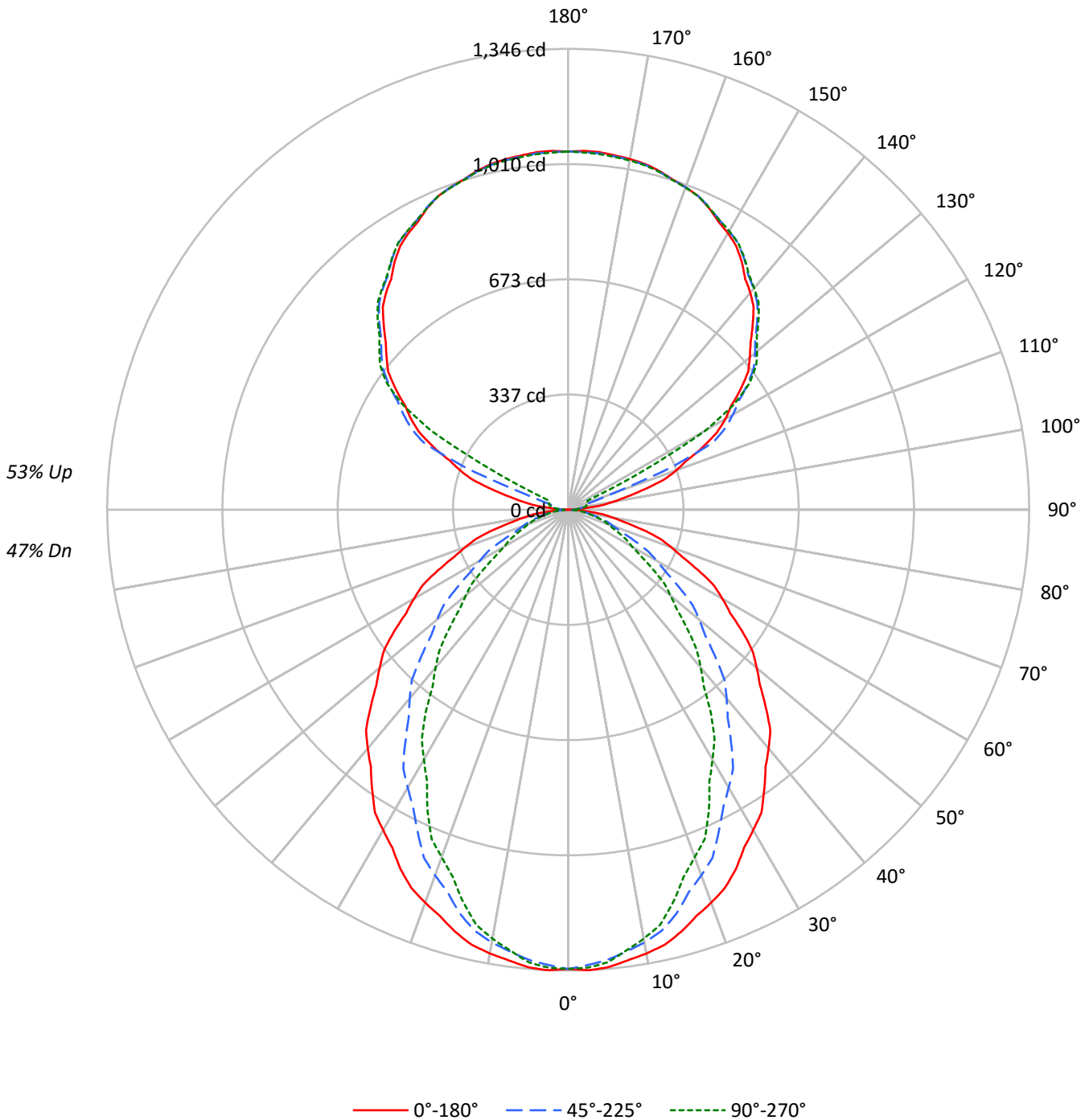
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331855-927

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 47 |
| 1   | 98  | 94  | 90  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | 41 |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 41 | 40 | 35 |
| 3   | 82  | 73  | 66  | 60  | 75 | 67 | 61 | 56 | 57 | 52 | 49 | 47 | 44 | 41 | 38 | 36 | 34 | 30 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 42 | 39 | 36 | 35 | 32 | 30 | 26 |
| 5   | 69  | 58  | 50  | 44  | 63 | 54 | 47 | 41 | 46 | 40 | 36 | 38 | 34 | 31 | 31 | 29 | 26 | 23 |
| 6   | 64  | 52  | 44  | 38  | 58 | 48 | 41 | 36 | 41 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 23 | 21 |
| 7   | 59  | 47  | 39  | 34  | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 8   | 55  | 43  | 35  | 30  | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 17 |
| 9   | 51  | 39  | 32  | 27  | 47 | 37 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 15 |
| 10  | 48  | 36  | 29  | 24  | 44 | 34 | 27 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 21660 | 21660 | 21660 |
| 5°  | 21742 | 21389 | 21507 |
| 10° | 21577 | 21040 | 20859 |
| 15° | 21329 | 20415 | 19826 |
| 20° | 20984 | 19524 | 18545 |
| 25° | 20633 | 18513 | 17302 |
| 30° | 20144 | 17473 | 15709 |
| 35° | 19669 | 16344 | 14310 |
| 40° | 19191 | 15173 | 12690 |
| 45° | 18630 | 13860 | 11227 |
| 50° | 18053 | 12534 | 9789  |
| 55° | 17464 | 11108 | 8408  |
| 60° | 16779 | 9607  | 6978  |
| 65° | 16000 | 8073  | 6357  |
| 70° | 15073 | 6652  | 5844  |
| 75° | 13936 | 6057  | 5452  |
| 80° | 12301 | 5421  | 4965  |
| 85° | 9670  | 4279  | 4279  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.6  | 2.2       |
| 10°-20°   | 344.8  | 5.9       |
| 20°-30°   | 484.2  | 8.3       |
| 30°-40°   | 528.0  | 9.1       |
| 40°-50°   | 485.4  | 8.3       |
| 50°-60°   | 381.3  | 6.5       |
| 60°-70°   | 248.6  | 4.3       |
| 70°-80°   | 128.2  | 2.2       |
| 80°-90°   | 35.8   | 0.6       |
| 90°-100°  | 34.9   | 0.6       |
| 100°-110° | 128.0  | 2.2       |
| 110°-120° | 342.1  | 5.9       |
| 120°-130° | 564.7  | 9.7       |
| 130°-140° | 600.5  | 10.3      |
| 140°-150° | 558.1  | 9.6       |
| 150°-160° | 448.7  | 7.7       |
| 160°-170° | 289.2  | 5.0       |
| 170°-180° | 99.5   | 1.7       |
| 0°-30°    | 954.5  | 16.4      |
| 0°-40°    | 1482.5 | 25.4      |
| 0°-60°    | 2349.2 | 40.3      |
| 0°-90°    | 2761.7 | 47.4      |
| 90°-120°  | 504.9  | 8.7       |
| 90°-150°  | 2228.2 | 38.2      |
| 90°-180°  | 3066.0 | 52.6      |
| 0°-180°   | 5827.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1342 | 1342  | 1342 | 1342  | 1342 |      |
| 5°   | 1342 | 1335  | 1320 | 1330  | 1327 | 127  |
| 15°  | 1276 | 1261  | 1221 | 1199  | 1186 | 359  |
| 25°  | 1158 | 1117  | 1039 | 991   | 971  | 532  |
| 35°  | 998  | 934   | 829  | 755   | 726  | 624  |
| 45°  | 816  | 732   | 607  | 524   | 492  | 630  |
| 55°  | 620  | 524   | 395  | 324   | 299  | 554  |
| 65°  | 419  | 320   | 211  | 172   | 166  | 415  |
| 75°  | 223  | 141   | 97   | 89    | 87   | 236  |
| 85°  | 52   | 28    | 23   | 23    | 23   | 62   |
| 90°  | 1    | 9     | 15   | 19    | 20   | 4    |
| 95°  | 49   | 26    | 30   | 33    | 33   | 60   |
| 105° | 230  | 240   | 46   | 54    | 58   | 246  |
| 115° | 435  | 448   | 467  | 133   | 62   | 428  |
| 125° | 615  | 626   | 640  | 645   | 647  | 549  |
| 135° | 762  | 773   | 780  | 787   | 786  | 588  |
| 145° | 883  | 883   | 896  | 900   | 897  | 552  |
| 155° | 973  | 967   | 975  | 979   | 973  | 448  |
| 165° | 1025 | 1021  | 1023 | 1027  | 1023 | 289  |
| 175° | 1048 | 1043  | 1045 | 1049  | 1042 | 100  |
| 180° | 1046 | 1046  | 1046 | 1046  | 1046 |      |



TEST NUMBER: P331855-927

CATALOG NUMBER: S122RDIW-S1005D970U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 |
| 2.5°   | 1346.4 | 1345.3 | 1344.2 | 1343.1 | 1342.0 | 1340.3 | 1337.9 | 1335.6 | 1333.2 | 1330.9 | 1333.0 |
| 5°     | 1341.5 | 1340.1 | 1338.8 | 1337.4 | 1336.1 | 1333.7 | 1330.2 | 1326.7 | 1323.2 | 1319.7 | 1322.1 |
| 7.5°   | 1327.7 | 1326.0 | 1324.4 | 1322.6 | 1321.0 | 1318.1 | 1314.0 | 1309.9 | 1305.8 | 1301.7 | 1302.4 |
| 10°    | 1316.1 | 1314.2 | 1312.2 | 1310.3 | 1308.4 | 1304.8 | 1299.4 | 1294.0 | 1288.6 | 1283.3 | 1282.5 |
| 12.5°  | 1301.5 | 1299.1 | 1296.8 | 1294.5 | 1292.2 | 1287.5 | 1280.6 | 1273.7 | 1266.9 | 1260.0 | 1258.5 |
| 15°    | 1276.0 | 1273.0 | 1270.0 | 1267.0 | 1264.1 | 1258.0 | 1248.9 | 1239.7 | 1230.5 | 1221.3 | 1216.2 |
| 17.5°  | 1244.6 | 1240.1 | 1235.6 | 1231.1 | 1226.5 | 1218.4 | 1206.6 | 1194.8 | 1183.0 | 1171.3 | 1165.2 |
| 20°    | 1221.3 | 1215.9 | 1210.5 | 1205.1 | 1199.8 | 1190.3 | 1176.8 | 1163.3 | 1149.9 | 1136.3 | 1129.6 |
| 22.5°  | 1196.0 | 1190.0 | 1184.0 | 1178.0 | 1171.9 | 1161.3 | 1146.1 | 1130.8 | 1115.6 | 1100.4 | 1091.7 |
| 25°    | 1158.2 | 1149.5 | 1140.9 | 1132.3 | 1123.6 | 1110.5 | 1092.7 | 1074.8 | 1057.0 | 1039.2 | 1028.2 |
| 27.5°  | 1112.5 | 1103.2 | 1093.8 | 1084.4 | 1075.0 | 1060.3 | 1040.2 | 1020.1 | 1000.1 | 980.0  | 967.1  |
| 30°    | 1080.5 | 1070.2 | 1060.0 | 1049.7 | 1039.5 | 1023.6 | 1002.0 | 980.4  | 958.9  | 937.2  | 923.4  |
| 32.5°  | 1049.4 | 1037.4 | 1025.5 | 1013.5 | 1001.5 | 984.5  | 962.5  | 940.5  | 918.5  | 896.4  | 880.7  |
| 35°    | 997.9  | 984.2  | 970.4  | 956.6  | 942.9  | 924.2  | 900.4  | 876.7  | 852.9  | 829.2  | 812.2  |
| 37.5°  | 946.5  | 931.4  | 916.2  | 901.1  | 886.1  | 865.9  | 840.5  | 815.2  | 789.9  | 764.6  | 745.9  |
| 40°    | 910.5  | 894.4  | 878.1  | 862.0  | 845.8  | 824.6  | 798.4  | 772.3  | 746.1  | 719.9  | 700.8  |
| 42.5°  | 873.6  | 856.6  | 839.6  | 822.4  | 805.4  | 783.4  | 756.4  | 729.3  | 702.3  | 675.3  | 655.5  |
| 45°    | 815.9  | 797.7  | 779.7  | 761.6  | 743.5  | 720.3  | 692.0  | 663.7  | 635.3  | 607.0  | 587.9  |
| 47.5°  | 759.5  | 740.4  | 721.2  | 702.0  | 682.9  | 658.7  | 629.5  | 600.2  | 570.9  | 541.7  | 522.7  |
| 50°    | 718.7  | 699.6  | 680.4  | 661.2  | 642.1  | 617.7  | 588.0  | 558.3  | 528.6  | 499.0  | 480.4  |
| 52.5°  | 678.9  | 658.9  | 638.9  | 618.9  | 598.8  | 574.3  | 545.3  | 516.3  | 487.2  | 458.2  | 440.2  |
| 55°    | 620.4  | 599.4  | 578.3  | 557.2  | 536.2  | 511.1  | 482.0  | 452.8  | 423.7  | 394.6  | 378.3  |
| 57.5°  | 560.4  | 538.8  | 517.2  | 495.7  | 474.0  | 449.2  | 421.3  | 393.2  | 365.3  | 337.2  | 322.4  |
| 60°    | 519.6  | 498.0  | 476.4  | 454.9  | 433.2  | 408.6  | 380.8  | 353.0  | 325.2  | 297.5  | 283.7  |
| 62.5°  | 479.8  | 458.2  | 436.7  | 415.0  | 393.5  | 369.4  | 342.9  | 316.4  | 289.9  | 263.5  | 250.3  |
| 65°    | 418.8  | 397.0  | 375.2  | 353.3  | 331.4  | 308.4  | 284.1  | 259.8  | 235.5  | 211.3  | 202.1  |
| 67.5°  | 360.0  | 338.4  | 316.7  | 295.0  | 273.3  | 251.5  | 229.7  | 207.9  | 186.0  | 164.1  | 159.9  |
| 70°    | 319.3  | 298.3  | 277.2  | 256.2  | 235.1  | 215.3  | 196.7  | 178.1  | 159.5  | 140.9  | 138.2  |
| 72.5°  | 280.4  | 260.2  | 240.1  | 219.9  | 199.7  | 182.1  | 167.2  | 152.3  | 137.3  | 122.4  | 120.1  |
| 75°    | 223.4  | 204.5  | 185.6  | 166.8  | 147.8  | 133.8  | 124.6  | 115.5  | 106.3  | 97.1   | 95.2   |
| 77.5°  | 167.3  | 150.8  | 134.2  | 117.6  | 101.0  | 90.5   | 86.1   | 81.7   | 77.2   | 72.9   | 71.8   |
| 80°    | 132.3  | 118.6  | 104.8  | 91.0   | 77.3   | 69.1   | 66.4   | 63.7   | 61.0   | 58.3   | 57.2   |
| 82.5°  | 100.3  | 89.5   | 78.8   | 68.0   | 57.4   | 51.0   | 49.2   | 47.4   | 45.6   | 43.7   | 43.1   |
| 85°    | 52.2   | 46.5   | 40.9   | 35.2   | 29.5   | 26.3   | 25.5   | 24.7   | 23.8   | 23.1   | 23.1   |
| 87.5°  | 15.7   | 14.3   | 13.0   | 11.6   | 10.3   | 9.7    | 10.0   | 10.3   | 10.5   | 10.8   | 10.8   |
| 90°    | 0.8    | 2.6    | 4.4    | 6.3    | 8.2    | 9.7    | 11.1   | 12.4   | 13.8   | 15.1   | 16.0   |
| 92.5°  | 15.3   | 15.1   | 15.0   | 14.8   | 14.7   | 14.9   | 15.5   | 16.2   | 16.9   | 17.6   | 18.0   |
| 95°    | 49.2   | 43.6   | 38.1   | 32.6   | 27.0   | 24.8   | 26.0   | 27.2   | 28.4   | 29.5   | 30.3   |
| 97.5°  | 97.7   | 82.0   | 66.4   | 50.7   | 35.1   | 28.6   | 31.4   | 34.1   | 36.8   | 39.5   | 40.2   |
| 100°   | 134.0  | 110.9  | 87.9   | 64.9   | 41.8   | 31.7   | 34.5   | 37.4   | 40.3   | 43.2   | 44.5   |
| 102.5° | 174.0  | 169.1  | 164.2  | 159.3  | 154.4  | 140.1  | 116.1  | 92.2   | 68.3   | 44.4   | 46.1   |
| 105°   | 230.1  | 235.2  | 240.2  | 245.3  | 250.3  | 229.9  | 183.9  | 138.0  | 92.1   | 46.2   | 48.0   |
| 107.5° | 294.1  | 298.3  | 302.3  | 306.3  | 310.5  | 284.9  | 229.9  | 174.8  | 119.7  | 64.6   | 62.7   |
| 110°   | 335.3  | 338.9  | 342.4  | 345.9  | 349.4  | 326.9  | 278.3  | 229.7  | 181.1  | 132.5  | 115.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 374.1  | 377.2  | 380.3  | 383.5  | 386.6  | 382.1  | 370.2  | 358.1  | 346.1  | 334.1  | 272.7  |
| 115°   | 435.2  | 438.1  | 441.0  | 443.9  | 446.7  | 450.2  | 454.4  | 458.6  | 462.9  | 467.1  | 389.1  |
| 117.5° | 489.9  | 493.1  | 496.3  | 499.5  | 502.7  | 505.7  | 508.7  | 511.5  | 514.4  | 517.3  | 498.4  |
| 120°   | 529.9  | 532.4  | 534.9  | 537.4  | 540.0  | 542.7  | 545.7  | 548.8  | 551.8  | 554.8  | 556.9  |
| 122.5° | 563.8  | 566.4  | 569.1  | 571.7  | 574.4  | 577.4  | 580.7  | 584.0  | 587.2  | 590.6  | 591.8  |
| 125°   | 615.4  | 617.6  | 619.8  | 621.9  | 624.2  | 626.9  | 630.0  | 633.3  | 636.4  | 639.6  | 640.8  |
| 127.5° | 662.2  | 664.6  | 667.0  | 669.5  | 671.8  | 674.3  | 676.7  | 679.1  | 681.4  | 683.8  | 685.6  |
| 130°   | 691.9  | 694.6  | 697.3  | 699.9  | 702.6  | 704.9  | 706.7  | 708.6  | 710.4  | 712.3  | 714.2  |
| 132.5° | 722.2  | 724.5  | 726.7  | 729.0  | 731.3  | 733.3  | 735.2  | 737.0  | 738.9  | 740.8  | 742.4  |
| 135°   | 761.5  | 764.2  | 766.9  | 769.6  | 772.3  | 774.4  | 775.9  | 777.4  | 778.9  | 780.5  | 782.1  |
| 137.5° | 801.3  | 803.2  | 805.1  | 807.0  | 808.8  | 810.6  | 812.4  | 814.0  | 815.8  | 817.5  | 819.2  |
| 140°   | 827.4  | 828.7  | 830.0  | 831.4  | 832.7  | 834.3  | 836.1  | 838.0  | 839.9  | 841.8  | 843.3  |
| 142.5° | 849.1  | 850.3  | 851.6  | 852.8  | 854.0  | 855.6  | 857.8  | 859.9  | 862.1  | 864.1  | 865.5  |
| 145°   | 883.4  | 883.2  | 883.0  | 882.9  | 882.7  | 884.1  | 886.9  | 889.8  | 892.6  | 895.5  | 896.7  |
| 147.5° | 913.2  | 912.5  | 911.9  | 911.2  | 910.6  | 911.7  | 914.6  | 917.3  | 920.2  | 923.1  | 923.9  |
| 150°   | 932.6  | 931.4  | 930.2  | 929.1  | 927.9  | 928.6  | 931.3  | 934.0  | 936.7  | 939.4  | 940.4  |
| 152.5° | 949.0  | 947.6  | 946.3  | 945.0  | 943.6  | 944.3  | 946.8  | 949.4  | 952.0  | 954.5  | 955.5  |
| 155°   | 972.7  | 971.1  | 969.6  | 968.1  | 966.6  | 966.9  | 968.9  | 970.9  | 973.0  | 974.9  | 976.0  |
| 157.5° | 991.3  | 990.1  | 988.7  | 987.5  | 986.2  | 986.3  | 987.7  | 989.1  | 990.5  | 991.9  | 993.1  |
| 160°   | 1002.2 | 1001.2 | 1000.2 | 999.2  | 998.1  | 998.1  | 999.2  | 1000.2 | 1001.2 | 1002.2 | 1003.2 |
| 162.5° | 1011.9 | 1010.9 | 1009.9 | 1008.8 | 1007.9 | 1007.8 | 1008.7 | 1009.6 | 1010.4 | 1011.3 | 1012.4 |
| 165°   | 1024.9 | 1023.9 | 1022.9 | 1021.9 | 1020.9 | 1020.6 | 1021.1 | 1021.6 | 1022.2 | 1022.6 | 1023.8 |
| 167.5° | 1034.6 | 1033.6 | 1032.6 | 1031.6 | 1030.5 | 1030.3 | 1030.8 | 1031.3 | 1031.7 | 1032.2 | 1033.3 |
| 170°   | 1040.1 | 1039.0 | 1038.1 | 1037.0 | 1036.0 | 1035.7 | 1036.0 | 1036.3 | 1036.7 | 1037.0 | 1038.2 |
| 172.5° | 1043.7 | 1042.7 | 1041.6 | 1040.7 | 1039.7 | 1039.3 | 1039.7 | 1040.0 | 1040.3 | 1040.7 | 1041.9 |
| 175°   | 1048.4 | 1047.2 | 1046.0 | 1044.9 | 1043.7 | 1043.2 | 1043.6 | 1043.9 | 1044.3 | 1044.6 | 1045.8 |
| 177.5° | 1049.2 | 1048.2 | 1047.3 | 1046.3 | 1045.4 | 1045.0 | 1045.1 | 1045.2 | 1045.4 | 1045.5 | 1046.5 |
| 180°   | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 |



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CATALOG NUMBER: S122RDIW-S1005D970U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 |
| 2.5°   | 1335.1 | 1337.3 | 1339.5 | 1340.3 | 1339.9 | 1339.5 | 1339.0 | 1338.6 |
| 5°     | 1324.5 | 1327.0 | 1329.4 | 1330.2 | 1329.4 | 1328.6 | 1327.8 | 1327.0 |
| 7.5°   | 1303.1 | 1303.8 | 1304.5 | 1304.2 | 1302.7 | 1301.3 | 1300.0 | 1298.5 |
| 10°    | 1281.6 | 1280.8 | 1280.0 | 1278.8 | 1277.2 | 1275.6 | 1273.9 | 1272.3 |
| 12.5°  | 1257.0 | 1255.5 | 1254.1 | 1252.0 | 1249.4 | 1246.7 | 1244.0 | 1241.3 |
| 15°    | 1211.1 | 1205.9 | 1200.8 | 1196.9 | 1194.2 | 1191.5 | 1188.8 | 1186.1 |
| 17.5°  | 1159.1 | 1153.0 | 1146.9 | 1141.5 | 1136.9 | 1132.3 | 1127.6 | 1123.0 |
| 20°    | 1122.8 | 1116.1 | 1109.4 | 1103.0 | 1097.1 | 1091.2 | 1085.2 | 1079.3 |
| 22.5°  | 1083.1 | 1074.4 | 1065.6 | 1059.1 | 1054.7 | 1050.3 | 1045.8 | 1041.4 |
| 25°    | 1017.1 | 1006.1 | 995.0  | 987.5  | 983.3  | 979.3  | 975.3  | 971.2  |
| 27.5°  | 954.2  | 941.3  | 928.4  | 918.7  | 912.3  | 905.9  | 899.4  | 893.0  |
| 30°    | 909.7  | 896.0  | 882.2  | 871.7  | 864.4  | 857.1  | 849.9  | 842.6  |
| 32.5°  | 865.1  | 849.4  | 833.6  | 822.4  | 815.6  | 808.7  | 801.8  | 795.0  |
| 35°    | 795.2  | 778.2  | 761.2  | 749.7  | 743.8  | 737.8  | 731.9  | 726.0  |
| 37.5°  | 727.1  | 708.4  | 689.7  | 676.9  | 670.2  | 663.4  | 656.6  | 649.7  |
| 40°    | 681.6  | 662.4  | 643.3  | 630.3  | 623.2  | 616.2  | 609.2  | 602.1  |
| 42.5°  | 635.6  | 615.8  | 596.0  | 582.7  | 575.9  | 569.1  | 562.4  | 555.6  |
| 45°    | 568.7  | 549.5  | 530.4  | 517.6  | 511.1  | 504.6  | 498.1  | 491.7  |
| 47.5°  | 503.6  | 484.6  | 465.5  | 453.0  | 447.2  | 441.3  | 435.4  | 429.5  |
| 50°    | 461.8  | 443.1  | 424.5  | 412.3  | 406.7  | 401.0  | 395.4  | 389.7  |
| 52.5°  | 422.2  | 404.3  | 386.3  | 374.7  | 369.5  | 364.2  | 359.0  | 353.8  |
| 55°    | 362.2  | 346.0  | 329.8  | 319.2  | 314.0  | 308.9  | 303.8  | 298.7  |
| 57.5°  | 307.6  | 292.7  | 277.9  | 268.3  | 264.0  | 259.7  | 255.4  | 251.0  |
| 60°    | 269.9  | 256.2  | 242.4  | 233.4  | 229.0  | 224.7  | 220.4  | 216.1  |
| 62.5°  | 237.3  | 224.1  | 211.0  | 203.1  | 200.6  | 198.0  | 195.4  | 192.8  |
| 65°    | 192.9  | 183.7  | 174.5  | 169.5  | 168.7  | 167.9  | 167.2  | 166.4  |
| 67.5°  | 155.7  | 151.5  | 147.3  | 144.7  | 143.9  | 143.1  | 142.2  | 141.3  |
| 70°    | 135.5  | 132.8  | 130.1  | 128.2  | 127.1  | 126.0  | 124.9  | 123.8  |
| 72.5°  | 117.9  | 115.6  | 113.3  | 111.9  | 111.2  | 110.6  | 109.9  | 109.2  |
| 75°    | 93.3   | 91.5   | 89.6   | 88.5   | 88.2   | 87.9   | 87.7   | 87.4   |
| 77.5°  | 70.7   | 69.6   | 68.5   | 67.7   | 67.3   | 66.9   | 66.5   | 66.1   |
| 80°    | 56.1   | 55.1   | 53.9   | 53.4   | 53.4   | 53.4   | 53.4   | 53.4   |
| 82.5°  | 42.4   | 41.7   | 41.1   | 40.8   | 40.8   | 40.8   | 40.8   | 40.8   |
| 85°    | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   |
| 87.5°  | 10.7   | 10.6   | 10.6   | 10.6   | 10.7   | 10.8   | 10.9   | 10.9   |
| 90°    | 16.8   | 17.7   | 18.5   | 19.1   | 19.4   | 19.7   | 20.1   | 20.4   |
| 92.5°  | 18.5   | 18.9   | 19.3   | 19.6   | 19.8   | 20.0   | 20.2   | 20.4   |
| 95°    | 31.2   | 32.1   | 32.9   | 33.2   | 33.0   | 32.9   | 32.7   | 32.6   |
| 97.5°  | 40.9   | 41.5   | 42.2   | 42.6   | 42.9   | 43.0   | 43.3   | 43.4   |
| 100°   | 45.9   | 47.2   | 48.6   | 49.4   | 49.7   | 50.1   | 50.4   | 50.7   |
| 102.5° | 47.8   | 49.6   | 51.3   | 52.4   | 52.9   | 53.4   | 53.9   | 54.3   |
| 105°   | 49.9   | 51.7   | 53.6   | 54.8   | 55.5   | 56.2   | 56.9   | 57.5   |
| 107.5° | 60.8   | 59.0   | 57.1   | 56.5   | 57.2   | 57.8   | 58.5   | 59.2   |
| 110°   | 98.8   | 82.0   | 65.2   | 57.1   | 57.8   | 58.5   | 59.1   | 59.8   |





TEST NUMBER: P331855-927

CATALOG NUMBER: S122RDIW-S1005D970U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 211.4  | 150.0  | 88.6   | 58.2   | 58.8   | 59.3   | 59.9   | 60.4   |
| 115°   | 311.2  | 233.4  | 155.5  | 110.5  | 98.4   | 86.3   | 74.1   | 62.1   |
| 117.5° | 479.6  | 460.8  | 442.0  | 412.6  | 372.8  | 333.0  | 293.3  | 253.4  |
| 120°   | 558.9  | 560.9  | 562.9  | 552.5  | 529.9  | 507.2  | 484.4  | 461.8  |
| 122.5° | 593.0  | 594.2  | 595.4  | 593.8  | 589.4  | 585.0  | 580.6  | 576.2  |
| 125°   | 642.0  | 643.2  | 644.4  | 645.2  | 645.7  | 646.2  | 646.7  | 647.2  |
| 127.5° | 687.3  | 689.0  | 690.7  | 691.6  | 691.7  | 691.8  | 691.9  | 692.0  |
| 130°   | 716.0  | 717.9  | 719.7  | 720.6  | 720.3  | 720.2  | 720.0  | 719.9  |
| 132.5° | 743.9  | 745.5  | 747.1  | 747.8  | 747.6  | 747.4  | 747.3  | 747.1  |
| 135°   | 783.8  | 785.4  | 787.1  | 787.8  | 787.5  | 787.1  | 786.8  | 786.5  |
| 137.5° | 820.8  | 822.4  | 824.1  | 824.7  | 824.1  | 823.5  | 822.9  | 822.4  |
| 140°   | 844.8  | 846.3  | 847.8  | 848.1  | 847.3  | 846.4  | 845.6  | 844.8  |
| 142.5° | 866.9  | 868.3  | 869.7  | 869.9  | 869.1  | 868.2  | 867.4  | 866.6  |
| 145°   | 897.9  | 899.0  | 900.2  | 900.4  | 899.5  | 898.7  | 897.9  | 897.0  |
| 147.5° | 924.8  | 925.7  | 926.5  | 926.6  | 925.9  | 925.2  | 924.5  | 923.8  |
| 150°   | 941.4  | 942.4  | 943.4  | 943.5  | 942.7  | 941.8  | 941.0  | 940.2  |
| 152.5° | 956.6  | 957.5  | 958.5  | 958.5  | 957.4  | 956.3  | 955.2  | 954.1  |
| 155°   | 977.0  | 977.9  | 979.0  | 978.8  | 977.5  | 976.1  | 974.8  | 973.4  |
| 157.5° | 994.2  | 995.4  | 996.5  | 996.4  | 995.1  | 993.8  | 992.4  | 991.2  |
| 160°   | 1004.2 | 1005.2 | 1006.2 | 1006.2 | 1005.0 | 1003.8 | 1002.7 | 1001.5 |
| 162.5° | 1013.6 | 1014.7 | 1015.9 | 1015.7 | 1014.2 | 1012.8 | 1011.4 | 1010.0 |
| 165°   | 1025.0 | 1026.2 | 1027.4 | 1027.4 | 1026.2 | 1025.0 | 1023.8 | 1022.6 |
| 167.5° | 1034.5 | 1035.7 | 1036.9 | 1036.7 | 1035.2 | 1033.7 | 1032.2 | 1030.7 |
| 170°   | 1039.4 | 1040.5 | 1041.7 | 1041.6 | 1040.1 | 1038.6 | 1037.0 | 1035.5 |
| 172.5° | 1043.0 | 1044.2 | 1045.4 | 1045.2 | 1043.7 | 1042.2 | 1040.7 | 1039.2 |
| 175°   | 1046.9 | 1048.1 | 1049.3 | 1049.1 | 1047.3 | 1045.7 | 1044.0 | 1042.4 |
| 177.5° | 1047.4 | 1048.3 | 1049.2 | 1049.2 | 1047.9 | 1046.7 | 1045.5 | 1044.3 |
| 180°   | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 |

(END OF REPORT)